

Notice of Allowability

Application No.

10/774,322

Examiner

Rene Garcia, Jr.

Applicant(s)

SARMAST ET AL.

Art Unit

2853

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment Filed 13 November 2006.
2. ☒ The allowed claim(s) is/are 1,2,5-9,11,13-15,17-25,27 and 29-32.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

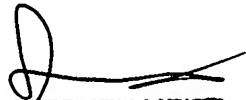
* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


STEPHEN MEIER
SUPERVISORY PATENT EXAMINER

REASONS FOR ALLOWANCE

1. Claims 1, 2, 5-9, 11, 14, 15, 17-25, 27, 29, 30, 31 & 32 are allowed.
2. The following is an examiner's statement of reasons for allowance: The primary reason for the allowance of claims 1, 2, 5-9 is the inclusion of the method steps for identifying a fluid ejection device that includes determining first identification information; *based on first identification information*, querying one or more elements that include second identification information; wherein the fluid ejection device is a print head and the first identification information *comprises a data rate of operation of the print head*; further determining a plurality of operating parameters of the fluid ejection device based upon the first and second identification information and operating in accordance with. It is these steps found in each of the claims, as they are claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes these claims allowable over the prior art.

The primary reason for the allowance of claims 11, 13, 14, 15 is the inclusion of the method steps for identification of a fluid ejection device that includes providing at least a first signal on one or more lines coupled to one or more fluid ejection elements; determining first identification information; providing a second signal to one or more elements on the fluid ejection device configured to provide second identification information; determining second identification information; determining a plurality of operating parameters of the fluid ejection device based on first and second identification information; *wherein the first identification information comprises a protocol for ejecting ink from the print head and a value or at least one pull down resistor*; operating print head in accordance with at least some of the parameters. It is these steps found in each of the claims, as they are claimed in the combination, that has not been

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found, taught or suggested by the prior art of record which makes these claims allowable over the prior art.

The primary reason for the allowance of claims 17-25 is the inclusion of the limitations of fluid ejection device including plurality of fluid ejection elements; plurality of identification elements; plurality of lines each coupled to a group of the plurality of fluid ejection elements; *plurality of pull down resistors coupled to some of the plurality of lines, at least some of the plurality of pull-down resistors encoding information regarding a protocol for operating the plurality of fluid ejection elements; wherein the information regarding the protocol further comprises information that is indicative of parameters for providing signals to the identification elements.* It is these limitations found in each of the claims, as they are claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes these claims allowable over the prior art.

The primary reason for the allowance of claims 27, 29, 30-32 is the inclusion of the limitations of fluid ejection device including plurality of fluid ejection elements; plurality of identification elements; plurality of lines each coupled to a group of the plurality of fluid ejection elements; *encoder for encoding information regarding a protocol of operating the fluid ejection elements, the encoder coupled to at least some of the plurality of lines; wherein the information regarding the protocol further comprises information for providing signals to the identification elements; wherein the encoder changes from a first state to a second state based upon signals received from a controller.* It is these limitations found in each of the claims, as they are claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes these claims allowable over the prior art.

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- Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."


COMMUNICATION WITH THE USPTO

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rene Garcia, Jr. whose telephone number is (571) 272-5980. The examiner can normally be reached on M-F 8:00AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen D. Meier can be reached on (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


Rene Garcia Jr
02/07


STEPHEN MEIER
SUPERVISORY PATENT EXAMINER